

SEQUENCE LISTING

<110> CHUGAI SEIYAKU KABUSHIKI KAISHA

<120> A method for producing antibodies by using MRL/lpr mice

<130> PH-1844-PCT

<140>

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<150> PCT/JP02/08998

<151> 2002-09-04

<160> 6

<170> PatentIn Ver. 2.1

<210> 1

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

<400> 1

gatatcatgg ccgggaccgt gcgcaccgcg t

31

<210> 2

<211> 31

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic

<400> 2

gctagctcag tgcaccagga agaagaagca c

31

<210> 3

<211> 31

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic

<400> 3

atagaattcc accatggccg ggaccgtgcg c

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<210> 4

<211> 31

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic

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ataggatccc ttcagcgggg aatgaacgtt c

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<210> 5

<211> 580

<212> PRT

<213> Homo sapiens

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<221> SIGNAL

<223> (1).. (19)

<220>

<221> SIGNAL

<223> (562).. (580)

<400> 5

Met Ala Gly Thr Val Arg Thr Ala Cys Leu Val Val Ala Met Leu Leu
1 5 10 15
Ser Leu Asp Phe Pro Gly Gln Ala Gln Pro Pro Pro Pro Pro Pro Asp
20 25 30
Ala Thr Cys His Gln Val Arg Ser Phe Phe Gln Arg Leu Gln Pro Gly
35 40 45
Leu Lys Trp Val Pro Glu Thr Pro Val Pro Gly Ser Asp Leu Gln Val
50 55 60
Cys Leu Pro Lys Gly Pro Thr Cys Cys Ser Arg Lys Met Glu Glu Lys
65 70 75 80
Tyr Gln Leu Thr Ala Arg Leu Asn Met Glu Gln Leu Leu Gln Ser Ala
85 90 95
Ser Met Glu Leu Lys Phe Leu Ile Ile Gln Asn Ala Ala Val Phe Gln
100 105 110
Glu Ala Phe Glu Ile Val Val Arg His Ala Lys Asn Tyr Thr Asn Ala
115 120 125
Met Phe Lys Asn Asn Tyr Pro Ser Leu Thr Pro Gln Ala Phe Glu Phe
130 135 140
Val Gly Glu Phe Phe Thr Asp Val Ser Leu Tyr Ile Leu Gly Ser Asp
145 150 155 160
Ile Asn Val Asp Asp Met Val Asn Glu Leu Phe Asp Ser Leu Phe Pro
165 170 175
Val Ile Tyr Thr Gln Leu Met Asn Pro Gly Leu Pro Asp Ser Ala Leu
180 185 190
Asp Ile Asn Glu Cys Leu Arg Gly Ala Arg Arg Asp Leu Lys Val Phe
195 200 205
Gly Asn Phe Pro Lys Leu Ile Met Thr Gln Val Ser Lys Ser Leu Gln
210 215 220

Val Thr Arg Ile Phe Leu Gln Ala Leu Asn Leu Gly Ile Glu Val Ile			
225	230	235	240
Asn Thr Thr Asp His Leu Lys Phe Ser Lys Asp Cys Gly Arg Met Leu			
	245	250	255
Thr Arg Met Trp Tyr Cys Ser Tyr Cys Gln Gly Leu Met Met Val Lys			
	260	265	270
Pro Cys Gly Gly Tyr Cys Asn Val Val Met Gln Gly Cys Met Ala Gly			
	275	280	285
Val Val Glu Ile Asp Lys Tyr Trp Arg Glu Tyr Ile Leu Ser Leu Glu			
	290	295	300
Glu Leu Val Asn Gly Met Tyr Arg Ile Tyr Asp Met Glu Asn Val Leu			
305	310	315	320
Leu Gly Leu Phe Ser Thr Ile His Asp Ser Ile Gln Tyr Val Gln Lys			
	325	330	335
Asn Ala Gly Lys Leu Thr Thr Thr Ile Gly Lys Leu Cys Ala His Ser			
	340	345	350
Gln Gln Arg Gln Tyr Arg Ser Ala Tyr Tyr Pro Glu Asp Leu Phe Ile			
	355	360	365
Asp Lys Lys Val Leu Lys Val Ala His Val Glu His Glu Glu Thr Leu			
	370	375	380
Ser Ser Arg Arg Arg Glu Leu Ile Gln Lys Leu Lys Ser Phe Ile Ser			
385	390	395	400
Phe Tyr Ser Ala Leu Pro Gly Tyr Ile Cys Ser His Ser Pro Val Ala			
	405	410	415
Glu Asn Asp Thr Leu Cys Trp Asn Gly Gln Glu Leu Val Glu Arg Tyr			
	420	425	430
Ser Gln Lys Ala Ala Arg Asn Gly Met Lys Asn Gln Phe Asn Leu His			
	435	440	445
Glu Leu Lys Met Lys Gly Pro Glu Pro Val Val Ser Gln Ile Ile Asp			
	450	455	460
Lys Leu Lys His Ile Asn Gln Leu Leu Arg Thr Met Ser Met Pro Lys			
465	470	475	480
Gly Arg Val Leu Asp Lys Asn Leu Asp Glu Glu Gly Phe Glu Ser Gly			
	485	490	495
Asp Cys Gly Asp Asp Glu Asp Glu Cys Ile Gly Gly Ser Gly Asp Gly			
	500	505	510

Met Ile Lys Val Lys Asn Gln Leu Arg Phe Leu Ala Glu Leu Ala Tyr
 515 520 525
 Asp Leu Asp Val Asp Asp Ala Pro Gly Asn Ser Gln Gln Ala Thr Pro
 530 535 540
 Lys Asp Asn Glu Ile Ser Thr Phe His Asn Leu Gly Asn Val His Ser
 545 550 555 560
 Pro Leu Lys Leu Leu Thr Ser Met Ala Ile Ser Val Val Cys Phe Phe
 565 570 575
 Phe Leu Val His
 580

<210> 6
 <211> 579
 <212> PRT
 <213> Mus musculus

<220>
 <221> SIGNAL
 <222> (1).. (19)

<220>
 <221> SIGNAL
 <222> (561).. (579)

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 1 5 10 15

 Gly Leu Gly Cys Leu Gly Gln Ala Gln Pro Pro Pro Pro Pro Asp Ala
 20 25 30

 Thr Cys His Gln Val Arg Ser Phe Phe Gln Arg Leu Gln Pro Gly Leu
 35 40 45

 Lys Trp Val Pro Glu Thr Pro Val Pro Gly Ser Asp Leu Gln Val Cys

50	55	60
Leu Pro Lys Gly Pro Thr Cys Cys Ser Arg Lys Met Glu Glu Lys Tyr		
65	70	75 80
Gln Leu Thr Ala Arg Leu Asn Met Glu Gln Leu Leu Gln Ser Ala Ser		
	85	90 95
Met Glu Leu Lys Phe Leu Ile Ile Gln Asn Ala Ala Val Phe Gln Glu		
100	105	110
Ala Phe Glu Ile Val Val Arg His Ala Lys Asn Tyr Thr Asn Ala Met		
115	120	125
Phe Lys Asn Asn Tyr Pro Ser Leu Thr Pro Gln Ala Phe Glu Phe Val		
130	135	140
Gly Glu Phe Phe Thr Asp Val Ser Leu Tyr Ile Leu Gly Ser Asp Ile		
145	150	155 160
Asn Val Asp Asp Met Val Asn Glu Leu Phe Asp Ser Leu Phe Pro Val		
	165	170 175
Ile Tyr Thr Gln Met Met Asn Pro Gly Leu Pro Glu Ser Ala Leu Asp		
180	185	190
Ile Asn Glu Cys Leu Arg Gly Ala Arg Arg Asp Leu Lys Val Phe Gly		
195	200	205
Ser Phe Pro Lys Leu Ile Met Thr Gln Val Ser Lys Ser Leu Gln Val		
210	215	220
Thr Arg Ile Phe Leu Gln Ala Leu Asn Leu Gly Ile Glu Val Ile Asn		
225	230	235 240
Thr Thr Asp His Leu Lys Phe Ser Lys Asp Cys Gly Arg Met Leu Thr		

	245	250	255
Arg Met Trp Tyr Cys Ser Tyr Cys Gln Gly Leu Met Met Val Lys Pro			
260	265	270	
Cys Gly Gly Tyr Cys Asn Val Val Met Gln Gly Cys Met Ala Gly Val			
275	280	285	
Val Glu Ile Asp Lys Tyr Trp Arg Glu Tyr Ile Leu Ser Leu Glu Glu			
290	295	300	
Leu Val Asn Gly Met Tyr Arg Ile Tyr Asp Met Glu Asn Val Leu Leu			
305	310	315	320
Gly Leu Phe Ser Thr Ile His Asp Ser Ile Gln Tyr Val Gln Lys Asn			
325	330	335	
Gly Gly Lys Leu Thr Thr Thr Ile Gly Lys Leu Cys Ala His Ser Gln			
340	345	350	
Gln Arg Gln Tyr Arg Ser Ala Tyr Tyr Pro Glu Asp Leu Phe Ile Asp			
355	360	365	
Lys Lys Ile Leu Lys Val Ala His Val Glu His Glu Glu Thr Leu Ser			
370	375	380	
Ser Arg Arg Arg Glu Leu Ile Gln Lys Leu Lys Ser Phe Ile Asn Phe			
385	390	395	400
Tyr Ser Ala Leu Pro Gly Tyr Ile Cys Ser His Ser Pro Val Ala Glu			
405	410	415	
Asn Asp Thr Leu Cys Trp Asn Gly Gln Glu Leu Val Glu Arg Tyr Ser			
420	425	430	
Gln Lys Ala Ala Arg Asn Gly Met Lys Asn Gln Phe Asn Leu His Glu			

435	440	445
Leu Lys Met Lys Gly Pro Glu Pro Val Val Ser Gln Ile Ile Asp Lys		
450	455	460
Leu Lys His Ile Asn Gln Leu Leu Arg Thr Met Ser Val Pro Lys Gly		
465	470	475 480
Lys Val Leu Asp Lys Ser Leu Asp Glu Glu Gly Leu Glu Ser Gly Asp		
485	490	495
Cys Gly Asp Asp Glu Asp Glu Cys Ile Gly Ser Ser Gly Asp Gly Met		
500	505	510
Val Lys Val Lys Asn Gln Leu Arg Phe Leu Ala Glu Leu Ala Tyr Asp		
515	520	525
Leu Asp Val Asp Asp Ala Pro Gly Asn Lys Gln His Gly Asn Gln Lys		
530	535	540
Asp Asn Glu Ile Thr Thr Ser His Ser Val Gly Asn Met Pro Ser Pro		
545	550	555 560
Leu Lys Ile Leu Ile Ser Val Ala Ile Tyr Val Ala Cys Leu Phe Phe		
565	570	575
Leu Val His		